

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) A method for determining an environmental condition by measuring a biochemical composition of one or more microorganisms exposed to said environmental condition.
2. (original) A method for determining changes in an environmental condition by measuring changes in a biochemical composition of one or more microorganisms exposed to said changes in an environmental condition.
3. (original) A method for determining an environmental condition comprising the steps of measuring a biochemical composition of one ore more microorganisms exposed to said environmental condition, comparing said biochemical composition to a predetermined calibration line of a plurality of biochemical compositions of said one or more microorganisms obtained by means of exposure of said one or more microorganisms to a plurality of environmental conditions and determining said environmental condition by means of the position of said biochemical composition on said calibration line.
4. (currently amended) A method according to ~~any one of~~ claims 1-3, wherein said one or more microorganisms comprise bacteria, fungi and/or yeasts.
5. (currently amended) A method according to ~~any one of the preceeding claims~~ claim 1, wherein said biochemical composition comprises the transcriptome, the proteome and/or the metabolome of a microorganism.

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6. (currently amended) A method according to ~~any one of the preceding claims~~ claim 1, wherein said biochemical composition is the transcriptome.
7. (currently amended) A method according to claim 5 or 6, wherein said biochemical composition is determined using microarrays.
8. (currently amended) A method for controlling or monitoring an environmental condition, comprising a method according to ~~any one of~~ claims 1-7.
9. (original) A method for controlling a process, comprising a method according to claim 8.
10. (currently amended) Use of a method according to ~~any one of~~ claims 1-9, wherein an environmental condition of a food preparation process, a biofilm formation process, a fermentation process and/or a bioconversion process is determined.
11. (currently amended) Use of a method according to ~~any one of~~ claims 1-9, for determining a chemical and/or biological substance in air and/or aqueous environment.